

# Milan Mahat

DevOps Engineer at Mercantile | [Github](#) [Linkedin](#) [Website](#)

## SUMMARY

I am an AWS certified DevOps Engineer who is driven to optimize cloud infrastructure and revolutionize deployment processes. With expertise in AWS, CICD for microservices & Automation, I accelerate deployment times, reduce costs, elevate team productivity and make an impact in your organization.

## EXPERIENCE

### Mercantile Cloud Consulting — *Devops Engineer*

Feb 2023 - Present

- Used CICD tools like gitlab, Jenkins and AWS CodePipeline to streamline the deployment process of Java, NodeJs, Python, VueJS and laravel based applications
- Automated full infrastructure creation & app deployment for SAAS product both in AWS and Azure, reduced deployment time by 60%
- Worked with various AWS services like ECS, EventBridge, lambda functions, SQS, step functions, API Gateways, AWS Cognito, Cloudfront, RDS, Cloudwatch, SSM, ALB, Amplify & VPC Peering
- Implemented AWS Control Tower with guardrails, Centralized Guard Duty, Inspector and Centralized AWS backup for ISO Certification of the organization
- Worked with various Azure services like App service, Container apps, Container Registry, Azure functions, Azure VM, EventGrid, Azure OpenAI, Azure VNET & NAT gateways
- Increased CICD speed by around 30% by optimizing pipelines, creating golden images, and reducing docker image size.
- Helped to reduce AWS cost by around 20% by rightsizing existing AWS resources and cleaning up unused resources
- Ensured seamless collaboration with team members and clients to monitor and optimize the progress of DevOps tasks, ensuring they align with expectations.
- Worked as python developer for creating data scraping engine using selenium and scrapy
- Experience with LLM, Automation & RAG technology to create AI based content and chatbots

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## TECHNICAL SKILLS

### 1. System Administration

- Ubuntu, CentOS, Windows server

### 2. Cloud Infrastructure

- Amazon Web Services, Azure
- Apache Cloud Stack, Cpanel

### 3. Development & Deployment

- Python and bash scripting
- Terraform, Ansible
- Jenkins, CircleCI, Gitlab, Codebuild, ArgoCD
- Docker, ECS, RKE2, Rancher, EKS

### 4. Monitoring

- Prometheus, Grafana, Thanos, Loki, Zabbix, Cloudwatch

### 5. Security

- Vault, AWS Secret Manager, AWS WAF, Sonarqube, AWS Inspector, AWS Guardduty

## PROJECTS

### **Paisa Bachau** — *Chrome Extension and website*

Links: [Chrome Extension](#), [PaisaBachau](#)

- Created paisabachau as an ecommerce gateway portal
- Worked on creating core app and APIs using Django Rest Framework

## [Cloudtech Pvt Ltd](#), Nepal — Associate Devops (AWS)

Nov 2021 - Feb 2023

- Used AWS ECS for creating scalable and highly available Blue Green application architecture of Broker Management System for US Broker agencies: Payment system (\$200M in transactions), Message center (over 1 million messages i.e. emails/sms handled), and SSO application (single sign on).
- Used Git and Jenkins pipeline for creating CICD system for deployment, built scripts using bash and python for automating repetitive tasks
- Integrated monitoring tools like grafana, loki, prometheus and thanos and configured sms & rocketchat alerts
- Used AWS WAF for protection from SQL Injection attacks & implemented Sonarqube for code analysis
- Configured Vault for centralized credentials management for backend applications

## [Datahub](#), Nepal — System Admin

June 2021 - Oct 2021

- Used Apache CloudStack for managing Virtual Machines, LVM, Bind and PowerDNS, Cpanel and WHM
- Worked on setting up infrastructure monitoring using Zabbix and automating backups for clients

## EDUCATION

### Trinity International College, Dillibazar — BSc. CSIT

2017 - 2021

CSIT (Computer Science and Information Technology)

### Trinity International College, Dillibazar — +2

2015 - 2017

Computer Science (+2)

## RAG Chatbot - ChatGPT 4o-mini

[SITE](#)

- User can upload their documents and get chatbot ready API with API token within a few minutes
- Created backend using fastapi, langchain, vectorstore, FAISS, ChatOpenAI, pymongo and other various libraries
- Created frontend using streamlit

## House price prediction Project — Linear Regression Model

[SITE](#) [GITHUB](#)


- Predicts the price of house according to the given attribute values
- Data is collected from basobaas.com

## Certificates

- [AWS Certified Solutions Architect](#)
- [Python Core](#)

## Extra

- [Blog Website](#)
- [Youtube Channel](#)
- Panelist for Herald DEVCORPS

 Demystifying the DevOps Mar...

## LANGUAGES

- Fluent in English, Nepali and Hindi